

Find the inverse of f.

$$\begin{aligned} 1) & f(x) = 3x - 5 \\ ① & y = 3x - 5 \\ ② & x = 3y - 5 \\ ③ & +5 \quad +5 \\ \hline & x+5 = 3y \\ & \frac{x+5}{3} = \frac{3y}{3} \\ & y = \frac{x+5}{3} \end{aligned}$$

$$④ \boxed{f^{-1}(x) = \frac{x+5}{3}}$$

Money save for Later

B = # of buses

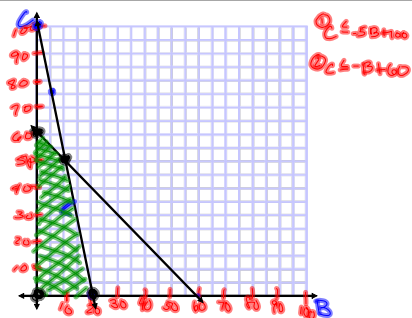
C = # of cars

$$① 6C + 30B \leq 600$$

$$② B + C \leq 60$$

$$\begin{aligned} ① \quad 6C + 30B &\leq 600 \\ &\quad -30B \quad -30B \\ \hline 6C &\leq 30B + 600 \\ \frac{6C}{6} &\leq \frac{30B}{6} + \frac{600}{6} \\ \boxed{C} &\leq 5B + 100 \end{aligned}$$

$$\begin{aligned} B + C &\leq 60 \\ -B &\quad -B \\ \hline C &\leq -B + 60 \end{aligned}$$



(B,C)	$7.50B + 2.50C$	Max
(0,0)	$7.50(0) + 2.50(0)$	\$0
(20,0)	$7.50(20) + 2.50(0)$	\$150
(0,60)	$7.50(0) + 2.50(60)$	\$150
(10,50)	$7.50(10) + 2.50(50)$	\$200

10 Buses
50 Cars

G = garlic T = toso

$$2G + 3T \leq 18$$

$$2G + T \leq 10$$

$3G + 2T$ Solve (G,T)
graph

HW

Example 2
Linear Programming Notes

Problem #2